

ABSTRACT:

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Pilot signal transmission sequences and methods for use in a multi-sector cell.

Pilots in different sectors are transmitted at different known power levels. In adjacent
5 sectors a pilot is transmitted while no pilot is transmitted in the adjoining sector. This
represents transmission of a NULL pilot signal. A cell NULL is also supported in which
NULL pilots are transmitted in each sector of a cell at the same time. Multiple pilot
signal measurements are made. At least two channel quality indicator values are
10 generated from measurements corresponding to at least two pilot signals of different
power levels. The two values are transmitted back to the base station which uses both
values to determine the transmit power required to achieve a desired SNR at the
wireless terminal. The wireless terminal also reports information indicating its location
to a sector boundary.